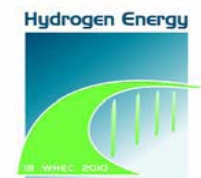


18. WHEC Essen 2010



Name of author	Nation	Company / Institute	Title of poster contribution
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FC - Fuel Cell Basics

FC.1 - Electrochemistry of PEM Fuel Cells

Prof. Dr.Bettermann, Hans	D	Heinrich Heine Universität Düsseldorf	Poster: On-line in-situ diagnostics of processes within PEM fuel cells by the application of Raman fibre techniques
Mindt, Hans-Wilfried	D	ESI Engineering System International GmbH	Poster: Computational Modeling of Carbon Corrosion in PEM Fuel cells
Bergmann, Arno	D	Fraunhofer Institute - ISE	Poster: Spatially resolved impedance spectroscopy in PEM fuel cells up to 200°C
Nakashima, Kohei	JP	Meijo University	Poster: Evaluation of Power Performance of Small Free-Breathing Polymer Electrolyte Fuel Cells
Nakashima, Kohei	JP	Meijo University	Poster: Power Performance of Small Polymer Electrolyte Fuel Cells under Various Humidification Conditions

FC.2 - PEM/ HT-PEM Fuel Cells: Electrolytes, Stack Components

Conradi, Oliver	D	3M Deutschland GmbH	Poster: Characterization of Composite Membranes for Fuel Cell Applications: Challenges in Translating Ex-situ Properties into In-situ Performance
Dr.Eroglu, Inci	TR	Middle East Technical University	Poster: High Temperature Proton Exchange Membrane Fuel Cells
Misz, Ulrich	D	ZBT Zentrum für Brennstoffzellen Technik GmbH	Poster: Analysis of the influence of a cathode air filter for traffic-related gaseous and particulate contaminants on PEMFC
Kurz, Timo	D	Fraunhofer Institute - ISE	Poster: Using silicon as bipolar plate material in high temperature PEM fuel cells
Kurz, Timo	D	Fraunhofer Institute - ISE	Poster: A compact HTPEM fuel cell module with open cathode for portable applications
Varfolomeeva, Julia	D	IMTEK, University of Freiburg	Poster: Optimization of thermal management in high temperature fuel cells
Edelmann, Achim	D	Gräbener Maschinentechnik GmbH & Co. KG	Poster: Economic production of metallic separator plate units

Rezaei, Majid	IR	Isfahan subsea R&D institute	Poster: Soft Switching PWM Isolated Boost Converter for Fuel cell Application
Grundler, Marco	D	ZBT Zentrum für Brennstoffzellen Technik GmbH	Poster: CarbonNanoTubes (CNT) in bipolar plates for PEM fuel cell applications
Al-Saleh, Feras	D	Volkswagen AG	Poster: Air Management for Low Temperature Fuel Cell Systems
Greda, Martin	D	Fachhochschule Gelsenkirchen	Poster: Modular PEM Fuel Cell System
Chang, Min-Hsing	TW	Tatung University	Poster: A membraneless hydrogen/air fuel cell with a liquid electrolyte
Dr.Eroglu, Inci	TR	Middle East Technical University	Poster: Preparation and Characterization of Nafion/Titanium Dioxide Nanocomposite Membranes for Proton Exchange Membrane Fuel Cells
Hodakovska, Julija	LV	Hydrogen and Gas Sensors Laboratory Institute of Solid State Physics	Poster: Multi-layered proton-electron conductive polymer membrane for fuel cells
Dr.Lin, Rui	CN	Tongji University	Poster: Improvement the stability of fuel cell system by controlling the water management of PEM fuel cell

FC.3 - Direct Fuel Cells

Schröder, Alexander	D	Forschungszentrum Jülich	Poster: Combined local current distribution measurements and high resolution neutron radiography of operating Direct Methanol Fuel Cells
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FC.4 - High-Temperature Fuel Cells

Courtin, Emilie	FR	CEA	Poster: Sol Gel process for preparing anode supported YSZ electrolyte
Dr.Günen, Evren	TR	TUBITAK-MAM-GMBE	Poster: Preliminary Results of the High Surface Area Electrode/Electrolyte Interface for Improved Performance and Durability of Solid Oxide Fuel Cells (SOFC) Project
Boaventura, Jaime	BR	Universidade Federal de Bahia	Poster: Low-carbon formation electrocatalysts for hydrogen production from ethanol for use as SOFC anodes

FC.5 - Advanced Modelling

Martinez, Graciano	ES	INTA Renewable Energy	Poster: Transys simulation of a remote Telecom Application (Hidrosolar_H2) fed by PV Panels and H2 Production and Storage
Al-Saleh, Feras	D	Volkswagen AG	Poster: Analysis and Comparison of Different PEM-Fuel Cell System Variations
Fofana, Daouda	CA	Université de Québec à Trois-Rivières	Poster: Dynamic Modelisation of the Water Balance in the Cathode Gas Diffusion Layer of Polymer Electrolyte Fuel Cells

Mindt, Hans-Wilfried D ESI Engineering System International GmbH Poster: A Two-Fluid Model for Water Transport in a PEM Fuel Cell

HI - Fuel Infrastructures

HI.1 - Hydrogen Distribution Technologies

Marcuello Fernandez, Pablo	ES	Foundation for the Development of New Hydrogen Technologies in Aragon	Poster: Aragon Hydrogen Foundation filling station
Iskov, Henrik	DK	Danish Gastechnology Centre	Poster: Field test of hydrogen in the natural gas network
Macron, Jonathan	FR	Air Liquide France	Poster: Advances in hydrogen refueling stations

HI.2 - Hydrogen Deployment

Dr.Weeda, Marcel	NL	European Commission Institute for Energy Research Center	Poster: Integrated Simulation of Hydrogen Car Penetration and the Roll-out of a Hydrogen Refuelling Infrastructure in the Commercialisation Phase: A Case Study for the Netherlands
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HI.3 - Fuel Provision for Early Market Applications

Dr.Iordache, Ioan	RO	ICSI Rm Valcea	Poster: Revamping of existent chlor-alkali plants for conversion of hydrogen to electricity, Hydrogen Community germination step
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HP - Hydrogen Production Technologies

HP.1a - Photobiological Hydrogen Production

Lehr, Florian	D	Karlsruhe Institute of Technology (KIT)	Poster: Photobiotechnological Hydrogen Production with Microalgae
Dr.Eroglu, Inci	TR	Middle East Technical University	Poster: The Effect of Temperature and Light Intensity on Hydrogen Production by Rhodobacter capsulatus
Prof.Lee, Chi Mei	TW	National Chung Hsing University	Poster: Photohydrogen production from thermophilic aerobic digestion effluent and distillery wastewater by photosynthetic bacterium Rhodospseudomonas palustris WP 3-5
Chen, Pei-Chung	TW	Hung-Kuang University	Poster: Hydrogen Production by Anabaena sp. CH1 with Two-stage Process
Dr.Öztürk, Yavuz	TR	TUBITAK-MAM-GMBE	Poster: Improving the Hydrogen Production Capacity of Rhodobacter capsulatus by Genetically Modifying Redox Balancing Pathways
Dr.Plummer, Scott	US	H2OPE Biofuels, LLC	Poster: Hydrogen Production Using Photosynthetic Algae and Improved Hydrogenases
Laniecki, Marek	PL	A. Mickiewicz University	Poster: Immobilization technique of Rhodobacter sphaeroides O.U. 001 in hydrogen generation

Yeh, Kuei-Ling	TW	National Chung Cheng University	Poster: Continuous photo-hydrogen production from acetate using Rhodospseudomonas palustris WP 3-5
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HP.1b - Fermentative Hydrogen Production

Dr.Amorim, Eduardo	BR	University of São Paulo	Poster: Effect of alkalinity and organic loading rate in the fermentative H ₂ production from an anaerobic fluidized bed reactor
Laniecki, Marek	PL	A. Mickiewicz University	Poster: Hydrogen generation from waste glycerol in dark fermentation process
Anzola Rojas, Mélida del Pilar	BR	Universidade de São Paulo	Poster: Influence of the Carbon/Nitrogen ratio on the hydrogen production in a fixed-bed anaerobic reactor
Zheng, Hang	AU	University of Queensland	Poster: A high yield, hydrogen producing, bacterial community enriched from anaerobic digester leachate
Dr.Chen, Chun-Yen	TW	National Cheng Kung University	Poster: Biohydrogen production from combined dark-photo fermentation under a high ammonia content in the dark fermentation effluent
Dr.Lee, Dong-Yeol	JP	National Institute for Environmental Studies	Poster: Influence of sludge recycles on the continuous hydrogen and methane fermentation from food waste
Murugesan, Ganesan	IN	Manonmaniam Sundaranar University	Poster: Sequential evolution of bio-hydrogen from rubber industrial effluent and its microbial interaction to fermentation kinetics
Hafez, Hisham	US	University of Western Ontario	Poster: A novel biological hydrogen production system: impact of organic loading
Dr.Kengen, Servé	NL	Wageningen University	Poster: Systems Biology of Caldicellulosiruptor saccharolyticus: Reconstructing the metabolic network leading to hydrogen
Hayashi, Hiroki	JP	Yokohama National University	Poster: Improvement of hydrogen yield of Clostridium butyricum by metabolic engineering
Yung-Chung, Lo	TW	National Cheng Kung University	Poster: Optimizing fermentation conditions for biohydrogen production with Clostridium butyricum CGS2 using statistical experimental design
Yung-Chung, Lo	TW	National Cheng Kung University	Poster: Using biomass of starch-rich transgenic Arabidopsis vacuolar as feedstock for fermentative hydrogen production
Dewaki, Masayuki	JP	Yokohama National University	Poster: Enhancement of hydrogen yield from glucose by disrupting NADH:Ubiquinone Oxidoreductase of Enterobacter aerogenes
Dr.Yasuda, Keigo	JP	Yokohama National University	Poster: Continuous hydrogen production from starch by fermentation
Rocha Barros, Aruana	BR	Federal University of Sao Carlos	Poster: Biohydrogen production with anaerobic sludge using granulated tire supported fluidized bed reactor

HP.2 - Thermochemical Cycles

Dr.Pena, Jose-Angel	ES	University of Zaragoza Aragon	Poster: Effect of impurities of the solid on the subsequent hydrogen release in "Steam-Iron" process
Dr.Pena, Jose-Angel	ES	University of Zaragoza Aragon	Poster: "Steam-Iron" process for hydrogen production: recent advances
Taylor, Robin	US	Science Applications International Corp.	Poster: Solar Field Optimization for Photocatalytic and Electrolytic Thermochemical Hydrogen Production System for Splitting Water
Dr.Elder, Rachael	UK	University of Sheffield	Poster: Improving Sulphur Dioxide Yield in the Sulphuric Acid Thermal Decomposition Process through the Application of High Temperature Ceramic Membrane Separations
Liberatore, Raffaele	IT	ENEA-Italian Agency for New Technologies, Energy and the Environment	Poster: Chemical characterization of sulphur-iodine thermochemical cycle flowstreams by Raman Spectroscopy
Burghardt, Heike	D	DLR	Poster: Two-step water splitting by cerium oxide-based redox pairs
Dr.Elder, Rachael	UK	University of Sheffield	Poster: Low Temperature Separations in the Sulphuric Acid Decomposition Stage of the Sulphur Iodine and Hybrid Sulphur Thermochemical Water Splitting Cycles
Dr.Giaconia, Alberto	IT	ENEA-Italian Agency for New Technologies, Energy and the Environment	Poster: Analysis and Development of the Bunsen Section in the Sulfur-Iodine Process
Balta, M. Tolga	TR	Ege Universitesi	Poster: Thermodynamic performance comparison of some renewable and no-renewable hydrogen production processes
Dr.Schmitz, Mark	D	Fachhochschule Aachen	Poster: Methanol from Hydrogen, CO2 and solar energy
Dr.Dincer, Ibrahim	CA	University of Ontario	Poster: Exergoeconomic Analysis of a Copper-Chlorine Thermochemical Cycle for Nuclear-Based Hydrogen Production

HP.3a - Hydrogen from Renewable Electricity

Krieg, Dennis	D	Forschungszentrum Jülich	Poster: Analysis of the impact of hydrogen on wind power
Dr.Andrews, John	AU	RMIT University School of Aerospace, Mechanical and Manufacturing Engineering	Poster: An integrated wave-power hydrogen-energy system for transport and stationary applications
Dr.Chiba, Seiki	JP	SRI International Advanced R&D Project Development	Poster: Revolutionary Electric Generators Using Electroactive
Weißer, Martin	D	WIND-projekt Ingenieur- und Projektentwicklungsgesellschaft mbH	Poster: Project description of RH2-Werder/Kessin/Altentrepow (RH2-WKA)
Aiche Hamane, Lilia	DZ	Centre de développement des Energies Renouvelables Bouzaréah	Poster: Study of hydrogen production from wind power in Algeria
Rey Porto, Milagros	ES	Gas Natural SDG	Poster: Analysis of Wind Power and Hydrogen Sotavento Plant

HP.3b - High-Temperature Electrolysis

Dr.Bo, Yu	CN	Tsinghua University	Poster: Progress in HTSE for Hydrogen Production using Planar SOEC Technology at INET
Mansilla, Christine	FR	CEA	Poster: Impact of the heat source selection on the high temperature electrolysis performances and economic competitiveness
Mougin, Julie	FR	CEA	Poster: High temperature steam electrolysis for hydrogen production: from material development to durable stack operation

HP.3c - Alkaline Electrolysis

Ursua, Alfredo	ES	Public University of Navarra	Poster: Photovoltaic hydrogen production with commercial alkaline electrolyzers
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HP.3d - PEM Electrolysis

Rau, Sebastian	D	Fraunhofer-Gesellschaft - ISE	Poster: PEM electrolyzer with nano-structured electrodes for high efficient hydrogen production
Huang, Cunping	US	University of Central Florida	Poster: Hydrogen production via electrolysis of aqueous ammonium sulfite solution

HP.4a - Reforming and Gasification - Fossil Energy Carriers

Lu, Yong	CN	East China Normal University	Poster: Miniature NH ₃ Cracker Based on Microfibrous Entrapped Ni-CeO ₂ /Al ₂ O ₃ Catalyst Monolith for Portable Fuel Cell Power Supplies
Dr.Schmid, Hans-Peter	D	WS Reformer GmbH	Poster: FLOX Reformers - Hydrogen for Fuel Cells
Alvarez-Galvan, Consuelo	ES	Csic- Institute of Catalysis	Poster: Reforming of diesel fuel for hydrogen production over catalysts derived from LaCo _{0.8} M _{0.2} O ₃ (M = Ni, Ru, Fe, Ga)
Maximini, Marius	D	OWI Oel-Wärme-Institut gGmbH	Poster: Investigations of steam reforming catalysts for fuel oil and diesel
Takeishi, Kaoru	JP	Shizuoka University	Poster: Development of hydrogen production catalysts from dimethyl ether
Dr.Seo, Dong Joo	KR	Korea Institut of Energy Research	Poster: Development of 20 Nm ³ /h class hydrogen production unit using natural gas reformer and PSA
Dr.Pena, Jose-Angel	ES	University of Zaragoza Aragon	Poster: Obtaining pure hydrogen from natural gas pyrolysis by redox processes
Prof.Cormos, Calin-Cristian	RO	Babes-Bolyai University	Poster: Hydrogen production from coal and biomass co-gasification process with carbon capture and storage
Henry, Philippe	FR	N-GHY	Poster: GENHSTOK : Pure H ₂ production with CO ₂ capture

Dr.Jalowiecki-Duhamel, Louise	FR	CNRS Université Lille 1	Poster: Low temperature hydrogen production from ethanol over cerium and nickel based oxyhydrides
Dr.Heidebrecht, Peter	D	Max-Planck-Institut	Poster: Hydrogen Production from Reformate Gas by a Cyclic Water Gas Shift Reactor
Abanades, Stéphane	FR	CNRS	Poster: Hydrogen production from natural gas thermal cracking: design and test of a pilot-scale solar chemical reactor
Dr.Retnamma, Rajasree	PT	National Institute of Engineering Department of Modeling and Simulation	Poster: Optimum Temperature Policy for Sorption Enhanced Steam Methane Reforming Process for Hydrogen Production
Dr.Montané, Daniel	ES	Rovira i Virgili University	Poster: Catalytic gasification of glycerol in supercritical water for hydrogen production
Di, Jiexun	UK	University of Oxford	Poster: Development of highly active natural gas reforming catalyst for internal reforming in low temperature SOFC
Dr.Jung, Un Ho	KR	Korea Institut of Energy Research	Poster: A newly designed compact fuel processor for the 1 kW class residential PEM fuel cells
Dr.Salemme, Lucia	IT	University of Naples Federico II	Poster: Catalytic Partial Oxidation in a Reverse Flow Reactor: A comparison between Rh/Al ₂ O ₃ and Pt/Al ₂ O ₃
Prof.Muradov, Nazim Z.	US	University of Central Florida	Poster: Catalytic Processing of High-Sulfur Fuels for Distributed Hydrogen Production
Wu, Chunfei	UK	University of Leeds Energy	Poster: Hydrogen production from the pyrolysis-gasification of waste plastics in the presence of nickel-based catalysts
Dr.Cocchi, Stefano	IT	University of Bologna	Poster: Two-step methanol reforming: a redox cycle approach for the production of H ₂
Dr.Dufour, Javier	ES	Universidad Rey Juan Carlos	Poster: Water gas shift reaction over magnetite-based catalysts in membrane reactor conditions
Botas Echevarría, Juan Angel	ES	Universidad Rey Juan Carlos	Poster: Ordered mesoporous carbon as catalysts with remarkable activity and stability for hydrogen production without CO ₂ emissions by CH ₄ decomposition
Dr.Giaconia, Alberto	IT	ENEA-Italian Agency for New Technologies, Energy and the Environment	Poster: Experimental and Theoretical Studies of Solar Steam Reforming Assisted by Molten Salts
Eckle, Stephan	D	Universität Ulm	Poster: Selective Methanation of CO in CO ₂ rich feed gases on supported Ru catalysts
Goula, Maria	GR	Technological Educational Institute of Western Macedonia	Poster: Studies over x%Ni/10%CeO ₂ -Al ₂ O ₃ catalysts for dry reforming and combined dry and steam reforming of methane for hydrogen production
Dr.Menna, Laura	IT	University of Naples Federico II	Poster: Innovative ATR-based PEM fuel cell system with hydrogen membrane separation: energy efficiency analysis

HP.4b - Reforming and Gasification - Biomass

Prof.Changfeng, Yan	CN	Guangzhou Institute of Energy Conversion	Poster: Hydrogen production from bio-oil aqueous fraction and its model compound using Ni/CeO ₂ -ZrO ₂ Catalyst
Dr.Lee, In Gu	KR	Korea Institute of Energy Research	Poster: Hydrogen Production from Lignocellulosic Biomass by Two-step Gasification Method
Dr.Lee, In Gu	KR	Korea Institute of Energy Research	Poster: Hydrogen Production by Supercritical Water Gasification of Wastewater from Food Waste Treatment Process
Dr.Furusawa, Takeshi	JP	Utsunomiya University	Poster: The cycle usage test of Pt based catalyst for the steam reforming of naphthalene/benzene as model tar compounds of biomass gasification
Calles, Jose Antonio	ES	Universidad Rey Juan Carlos	Poster: Hidrogen production by ethanol steam reforming on Ni/SiO ₂ catalysts: effect of Ce and Zr incorporation
Wiessner, Frank	D	Linde AG	Poster: Production of Green Hydrogen by the Renewable Feedstock Glycerin

HP.5 - Hydrogen-Separation Membranes

Dr.Montané, Daniel	ES	Rovira i Virgili University	Poster: Ceramic-supported polymer and carbon membranes for hydrogen separation
Calles, Jose Antonio	ES	Universidad Rey Juan Carlos	Poster: Comparison of composite-Pd-Ag and Pd-Cu membranes over PSS supports for hydrogen separation
Prof.Goltsov, Victor A.	UA	Donetsk State Techn. University	Poster: Fundamentals of hydrogen palladium membrane technology for production of high pure hydrogen
Zillich, Christian	D	Universität Duisburg-Essen	Poster: The Effect of Hydrogen on Transport Properties of Highly Permeable Metal Membranes
Yukawa, Hiroshi	JP	Nagoya Institute of Technology	Poster: Alloy Design of Nb-based Hydrogen Permeable Alloys with High Hydrogen Permeability and Strong Resistance to Hydrogen Embrittlement
Nishii, Takumi	JP	Tokyo Gas Co., Ltd. Technology Research Institute	Poster: Reforming Performance of Hydrogen Production Modules based on Membrane On Catalyst

HP.6 - Hydrogen Systems Assessment

Mansilla, Christine	FR	CEA	Poster: Performances and economic competitiveness comparison of advanced hydrogen production processes
Day, Kristin	US	National Renewable Energy Laboratory Hydrogen Systems and Technology Center	Poster: Evaluation of Hydrogen Storage System Characteristics for Light-Duty Vehicle Applications

Furlan, André Luis	BR	The University of Campinas	Poster: Comparative Analysis of Photovoltaic Power Storage Systems by means of Batteries and Hydrogen in Remote Areas of the Amazon Region of Brazil
Prof.Abdel-Aal, Hussein K.	EG	Higher Technical Institute Tenth of Ramadan	Poster: Resources of fossil and non-fossil hydrogen in the Middle East can make fuel cells an attractive choice for transportation: A survey study

HP.7 - Photocatalysis

Laniecki, Marek	PL	A. Mickiewicz University	Poster: Modified titanate perovskites in photocatalytic splitting of water
Dr.Dennison, Stephen	UK	Imperial College London	Poster: Characterisation of Fe ₂ O ₃ for Hydrogen Production using Solar Energy
Dr.Deka, Dhanapati	IN	Tezpur University	Poster: Photo-catalytic activity of Indium Titanate and doped Indium Titanate on hydrogen production
Costanzo, Lorenzo	AU	University of Sydney	Poster: Dye sensitized TiO ₂ core shells for direct hydrogen production from water
Chen, Donna	AU	University of Sydney	Poster: Study of ZnO-ZnS Heterostructure as Photocatalyst in The Water Splitting Reaction
Dr.Kaneco, Satoshi	JP	Mie University	Poster: Photocatalytic Hydrogen Production with Nanocomposite Photocatalysts
Dr.Lee, Tai-Chou	TW	National Chung Cheng University	Poster: The Visible-Light Responsive Polycrystalline AgInS ₂ Thin Films Prepared by Aqueous Solution for Photoelectrochemical Application
Dr.Li, Yuexiang	CN	Nanchang University	Poster: Photocatalytic hydrogen generation using glucose as electron donor over ZnIn ₂ S ₄ and Cd _x Zn _{1-x} S solid solutions
Laniecki, Marek	PL	A. Mickiewicz University	Poster: Mesoporous Sn _x /TiO ₂ materials as photocatalysts for water splitting reaction
Dr.Liu, Maochang	CN	Xi'an Jiaotong University	Poster: A novel one-step hydrothermal method for the preparation of series of metal sulfide/titanate nanotubes composites for photocatalytic hydrogen production
Dr.Liu, Maochang	CN	Xi'an Jiaotong University	Poster: Electronic structures and optical absorption properties of Ni-doped anatase TiO ₂ for photocatalysis from first-principles calculation
Navarro Yerga, Rufino Manuel	ES	Instituto de Catalisis y Petroleoquimica ICP - CSIC	Poster: Nanocrystalline Cd _{1-x} Zn _x S solid solutions as photocatalysts for water splitting under visible light irradiation: effect of the synthesis method
Dr.Liu, Maochang	CN	Xi'an Jiaotong University	Poster: Study on the optical properties, crystal growth and photocatalytic activity of Ni-doped TiO ₂ nanoparticles

Laniecki, Marek PL A. Mickiewicz University

Poster: Construction of Z-scheme using ATiO_3 (A=Ca, Sr, Ba) WO_3 and $\text{BiV}_5\text{O}_{14}$ systems in hydrogen generation from water

HS - Storage Systems

HS.1 - Physical Hydrogen Storage

Dr.Vondricka, Jiri	D	GSR Ventiltechnik GmbH & Co. KG	Poster: Rapid Reaction Valve – new system for flow control
Dr.Demael, Emmanuel	FR	Air Liquide France	Poster: Comparison between CFD simulations and experimental data for the evaluation of temperature distribution inside a cylinder during H_2 fast filling
Dr.Basnjev, Kaplan	RU	Gubkin Russian State University	Poster: Underground hydrogen storage problems in Russia
Dr.Nony, Fabien	FR	CEA	Poster: New generation of full composite vessels for 70MPa gaseous hydrogen storage : Results and achievements of the French HyBou project

HS.2a - Metal Hydrides

Urbanczyk, Robert	D	Institut für Energie- und Umwelttechnik	Poster: HT_PEM Fuel Cell System with integrated hydride storage tank
Uchida, Hirohisa	JP	Tokai University	Poster: Combinational Effects of Charged Particle Irradiation and Alkaline Pretreatment on Hydriding Property of a Mm-Ni Based Alloy
Prof. Dr.Anik, Mustafa	TR	Eskisehir Osmangazi University	Poster: Improvement of the Electrochemical Hydrogen Storage Performance of Mg-Based Alloys by the Various Partial Replacement Elements
Prof.Singh, Shiwa Kant	IN	DCR University of Science & Technology Murthal	Poster: Investigations on RNi_5 type hydrogen storage materials and its utilization
Dr.Röntzsch, Lars	D	Fraunhofer Institut - IWS	Poster: Hydrogen storage properties of melt-spun nanocrystalline Mg-Ni-Y alloys
Dr.Jain, I.P.	IN	University of Rajasthan	Poster: ERDA: Technique for Hydrogen Content and Depth profile in Thin Film Metal Hydride
Dr.Chung, Chih-Ang	TW	National Central University	Poster: Theoretical study of a metal hydride reactor with Mg_2Ni Alloys
Uchida, Hirohisa	JP	Tokai University	Poster: Effect of O_2 preadsorption on the rate of H_2 absorption on the surface of rare earths (La, Ce, Pr, Nd, Gd, Tb, Dy Y) at 298K

HS.2b - Complex Hydrides

Delmelle, Renaud	BE	Université catholique de Louvain	Poster: In-situ study of hydriding kinetics in Pd-based thin film systems
Hudson, Sterlin Leo	IN	Banaras Hindu University	Poster: Effects of coiled graphitic nanofibres for improving the dehydrogenation characteristics of complex aluminium hydrides
Dr. Moretto, Pietro	NL	European Commission DG JRC - IE	Poster: Round Robin hydrogen sorption performance characterisation of carbon adsorbents, complex and metal hydrides
Boddien, Albert	D	Leibniz-Institut für Katalyse e.V.	Poster: Improved Hydrogen Generation from Formic Acid
Prof. Minkina, Valentina	SR	Heat and Mass Transfer Institute NAS	Poster: Hydrolysis of sodium borohydride for hydrogen generation
Dr. Junge, Henrik	D	Leibniz-Institut für Katalyse e.V.	Poster: Formic Acid - Convenient Liquid Hydrogen Storage for mobile applications
Dr. Auroux, Aline	FR	CNRS	Poster: Calorimetric and kinetic studies of the catalyzed hydrolysis of sodium borohydride
von Colbe, Jose M. Bellosta	D	GKSS Forschungszentrum GmbH	Poster: Experimental Investigation of an 8 kg - Alanate Hydrogen Storage Tank
Frischauf, Norbert	NL	JRC-IE	Poster: The NESSHY hydrogen sorption properties database
Kurban, Zeynep	UK	Science and Technology Facilities	Poster: Hydrogen storage in Ammonia-Borane encapsulated Polymer nano-fibres
Dr. Okada, Yoshimi	JP	Chiyoda Corporation R&D Center	Poster: Development of Dehydrogenation Catalyst for Organic Chemical Hydride Method and Global hydrogen supply chain vision
Prof. Hauback, Bjorn C.	NO	Institute for Energy Technology	Poster: Task 22 of IEA HIA - Fundamental and Applied Hydrogen Storage Materials Development
Dr. Rozenak, Paul	IS	Hydrogen Energy Batteries LTD Batteries	Poster: Hydrogen generation by aluminum-water reactions
Yurdakul, Asli	TR	Middle East Technical University	Poster: Design of a Hydrogen gas generator using aqueous sodium borohydride solution for portable fuel cell applications
Selvan, Pukazh	IN	Banaras Hindu University	Poster: Nanocatalysis for NaAlH ₄

HS.3 - Adsorption Technologies

Prof. Yarovsky, Irene	AU	RMIT University Physics	Poster: Theoretical studies of aluminium nanostructures for hydrogen storage
Dr. Pedicini, Rolando	IT	CNR-ITAE	Poster: Hydrogen Storage by Functionalised Poly(ether ether ketone)
Prof. Imamura, H.	JP	Yamaguchi University	Poster: Magnesium-based nanocomposites synthesized by high-energy ball milling for hydrogen storage
Botas Echevarría, Juan Angel	ES	Universidad Rey Juan Carlos	Poster: Influence of metal doping on hydrogen adsorption of a MOF-74 framework

Prof Dr.Mitkin, Valentin	RU	Nikolaev Institute of Inorganic Chemistry	Poster: Mesoporous nanocomposition "carbon-light metal hydride" materials for hydrogen storage and reversible usage
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IP - Policy Perspectives, Initiatives and Cooperations

IP.1a - National Strategies and Programmes

Ochi, Kazuyuki	JP	Saijo City Office Planning and Economics Division	Poster: Policy and Action Programs for Hydrogen Energy
Rashidi, Reza	IR	SUNA	Poster: Renewable Energy Policy and Hydrogen and Fuel Cell Program of Islamic Republic of Iran
Le Duigou, Alain	FR	CEA/DEN/DANS/I-Tésé Commissariat à l'énergie atomique	Poster: Hydrogen chains in France: the HyFrance3 Project

IP.1b - IEA Hydrogen Implementing Agreement

Dr.Schoenung, Susan	US	Longitude 122 West, Inc.	Poster: Findings of a Literature Search on the Resources of Hydrogen for the Hydrogen Economy
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SA - Strategic Analyses

SA.2 - Life-Cycle Assessment and Economic Impact

Dr.Ferreira, Ana Filipa	PT	Instituto Superior Técnico	Poster: Analysis of energy consumption and CO2 emissions of the life cycle of bio-hydrogen applied to the Portuguese road transportation sector
Guinea, Domingo M.	ES	CSIC- Instituto de Automatica Industrial	Poster: Extensive Analysis of Hydrogen Costs
Goula, Maria	GR	Technological Educational Institute of Western Macedonia	Poster: Bioenergy: Hydrogen vs Biofuels using LCA

SA.3 - Socio-Economic Studies

Corneille, Marcel	D	Ingenieurbüro EMCEL	Poster: Fuel Cell and Hydrogen (FCH2) Technology Creates Business Opportunities beyond Products and Applications
Bouallou, Chakib	FR	MINES ParisTech	Poster: How to improve the public perception of hydrogen?

SA.4 - Education and Public Awareness

Dr.Yazici, M.Suha	TR	UNIDO-ICHET	Poster: Light Mobility Applications towards Public Education and Research
Park, Jaedeuk	KR	Yonsei University	Poster: Development of Web Site for Hydrogen Safety Education
Dr.Yazici, M.Suha	TR	UNIDO-ICHET	Poster: Education Activities at UNIDO-ICHET

Bolcich, Juan Carlos	AR	Asociacion Argentina del hidrogeno	Poster: Wind - Hydrogen Demonstration Plant, Pico Truncado, Santa Cruz, Argentina
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SA.5 - Market Introduction

Julien, Marianne	FR	Air Liquide France	Poster: Horizon Hydrogen Energy (H2E) Innovation Program
Nelsson, Corfitz	SE	Swedish Gas Center	Poster: HCNG – a bridge to a hydrogen future or a dead end?
Evers, Arno A.	D	Arno A. Evers FAIR-PR	Poster: Establishing a Model for a Hydrogen-Oriented Society

SA.7 - Regional Activities

Fernandes, Tomas Rei	PT	Institute Superior Técnico	Poster: A methodology for a hydrogen roadmap: the case for the SUDOE area
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SI - Safety Issues

SI.1 - Vehicle and Infrastructural Safety

Dr.Korobtsev, Sergey	RU	RRC Kurchatov Institute HEPTI OCAS NV Substrate and Metallic Coating Development	Poster: Two basic modes of hydrogen-air explosive envelope formation in confined space: implications for hydrogen detectors allocation and actuation
Leunis, Elke	BE	AppliedSensor GmbH	Poster: Selecting hydrogen embrittlement resistant materials
Pauly, Rolf	D	Sandia National Laboratories	Poster: Selective & Reliable Safety & Control Sensors for the Hydrogen Economy
LaChance, Jeffrey	US	European Comission DG JRC - IE	Poster: Risk Associated with the Use of Barriers in Hydrogen Refueling Stations
Dr.Black, Grainne	NL	Wroclaw University of Technology	Poster: Performance Testing of a MOSFET Sensor
Gasior, Pawel	PL		Poster: Smart fibre optic methods for structural health monitoring of high pressure vessels for hydrogen storage

SI.2 - Regulations, Codes, Standards and Test Methods

Mansooji, Mostafa	IR	SUNA	Poster: Study of Stationary Fuel Cell System Installation Codes and Standards
Dr.Morreale, Carmen	IT	Stazione Sperimentale per i Combustibili	Poster: H2 ignition by hot surfaces: safety issues and test methods

SM - Existing and Emerging Markets

SM.1 - Off-Grid Power Supply and Premium Power Generation

Dr.Rajalakshmi, Natarajan	IN	Centre for Fuel Cell Technology (ARCI)	Poster: Grid Independent PEMFC systems @CFCT-ARCI
Dr.Aicher, Thomas	D	Fraunhofer-Gesellschaft - ISE	Poster: 250 W(el) Reformer Fuel Cell System for Bio-Ethanol
Hölscher, Martin	D	H & S Hard- und Software Technologie	Poster: Fuel cells as back-up DC power supply for substations
Martinez, Graciano	ES	INTA Renewable Energy	Poster: Remote telecom system including photovoltaic energy and H2 production by electrolysis
Cuevas Escribano, Raquel	ES	INTA Renewable Energy	Poster: Remote telecom system including photovoltaic energy and H2 production by electrolysis
Prof Dr.Kapischke, Jörg	D	University of Applied Sciences Ansbach	Poster: Solar-hydrogen based autonomous electric power system in operation
Rupprecht, Klaus	D	Heliocentris Energiesysteme GmbH	Poster: Solar - hydrogen fuel cell systems

SM.3 - APUs for Road Vehicles, Ships and Airplanes

Dipl.-Ing.Machens, Christian	D	Marine Hydrogen and Fuel Cell Association MHFCA e.V.	Poster: Marine Hydrogen and Fuel Cell systems
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SM.4 - Portable Applications and Light Traction

Dr.Andrukaitis, Ed	CN	Defense R&D Canada	Poster: Hydrogen Storage for Auxiliary Power in Military Vehicles
van Sterkenburg, Stefan	NL	HAN Univeristy of applied sciences	Poster: Efficiency of a fuel cell driven forklift truck with a small AGM-battery packet
Dr.Beckhaus, Peter	D	ZBT Zentrum für Brennstoffzellen Technik GmbH	Poster: Sub kilowatt fuel cell systems – solutions for applications
Wilhelm, Jörg	D	Forschungszentrum Jülich	Poster: Hybridization and Control of Direct Methanol Fuel Cell Systems for Material Handling Applications

ST - Stationary Applications

ST.2 - Fuel Cells for Buildings

Mora, Joaquin	ES	Foundation for the Development of New Hydrogen Technologies in Aragon	Poster: Isolated Hybrid installation to cover single family house electrical consumptions with Hydrogen storage (IH2 Project)
Alzueta Ibañez, Beatriz	ES	CENER Renewable Energies Grid Integration Department	Poster: Definition and analysis of a hydrogen integrated building in Andalucía, Spain
Budd, Geoffrey	CA	Ballard Power Systems Inc	Poster: Utilizing Renewable Energy Resources for Distributed Power

Brenscheidt, Ulrich	D	Ritter Elektronik Mechatronik GmbH	Poster: The PEM fuel cell management system, a combination of high efficient DC/DC converter, support hardware and specific control strategy
Arsalis, Alexandros	DK	Aalborg University	Poster: Modeling And Simulation Of A Residential Micro-CHP System Based On HT-PEMFC Technology
Schastlivtsev, Alexey	RU	Joint Institute for High Temperatures RAS	Poster: Thermodynamic efficiency of geothermal plants with hydrogen steam overheating
Ilhan, Nilufer	TR	TUBITAK-MAM-GMBE	Poster: Exergy Analysis of Hydrogen Production Unit Integrated with a PEM Fuel Cell
Guinea, Domingo M.	ES	CSIC- Instituto de Automatica Industrial	Poster: Fuzzy Logic Control of a PEMFC for residential application
Dr.Verhage, Adriaan	NL	NedStack Fuel Cell Technology B.V.	Poster: Duration tests of PEM fuel cells in a 50 kW pilot power plant
Kaytaz, Asli	TR	TUBITAK-MAM-GMBE	Poster: Exergy Analysis of Hydrogen Production Unit Integrated with a PEM Fuel Cell

TA - Transportation Applications

TA.1 - Fuel-Cell Power Trains

Kaup, Dieter	D	Vossloh Kiepe GmbH	Poster: H2-Bus NRW - A Hybrid Electric Fuel Cell Bus
Gnörich, Bruno	D	RWTH Aachen University	Poster: Reducing Fuel Cell Vehicle Costs through Drivetrain Hybridization - A Life Cycle Analysis
Weigl, Jörg	MY	Universiti Teknologi Malaysia	Poster: Fuel Cell Motorbike in endurance test
Jung, Peter	D	Moehwald GmbH	Poster: Modular test equipment - Flexible test bench for fuel cell power systems to make application tests
Walter, Stephan	CH	Paul Scherrer Institut	Poster: Hydrogen driven municipal vehicle (hy.muve)
Prof.Kendall, Kevin	UK	University of Birmingham	Poster: Hydrogen fuel cell hybrids for campus use

TA.3 - Hydrogen Internal Combustion Engines

Prof.Yamane, Kimitaka	JP	Tokyo City University	Poster: Development of a Common-rail Type High Pressure Hydrogen Injector with a Large Injection Rate and an Ability of Multiple Stage Injection
Shioji, Masahiro	JP	Kyoto University	Poster: Feasibility of the Direct-Injection SI Hydrogen Engine at Lower Injection Pressures
Dr.Bose, Probir	IN	NIT Silchar and NIT Agartala	Poster: An experimental study of the emission reduction potential of hydrogen in a diesel engine under EGR operation

TA.4 - Systems Analysis and Well-to-Wheel Studies

Dr. Weeda, Marcel	NL	European Commission Institute for Energy Research Center	Poster: Impacts of demonstration phase activities and car refuelling habits of automobile drivers on the uptake of hydrogen cars and the corresponding development of hydrogen refuelling infrastructure
Voll, Anna	D	RWTH Aachen University	Poster: Production of biofuels – The hydrogen consumption as performance indicator in the early design stage

TA.5 - Demonstration Projects, Costs and Market Introduction

Cook, Shawn	CA	Canadian Hydrogen and Fuel Cell Association	Poster: Summary of Results and Learning Experiences from the Vancouver Fuel Cell Vehicle Program
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TA.6 - Electrification in Transportation Systems

Stenzel, Peter	D	FH Düsseldorf	Poster: Hydrogen and/or electric vehicles – Where will the development go to?
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